

SECTION 4

RISK-BASED CONSUMPTION LIMIT TABLES

4.1 OVERVIEW AND SECTION ORGANIZATION

This section provides consumption limit tables for carcinogenic and chronic health endpoints for the general adult population and chronic health endpoints for young children (<6 years) for 23 of the target analytes listed in Table 1-1. In addition, consumption limit tables based on developmental effects associated with exposure to methylmercury and PCBs are included for women of reproductive age and children. The consumption limits in these tables were calculated using Equations 3-1 through 3-3 and the default values for each of the variables described in Sections 3.2 and 3.3.

Variables used to calculate the consumption limits include fish meal size, consumer body weight, contaminant concentration in the fish tissue, the time-averaging period selected (monthly), the reference dose for noncarcinogenic health endpoints, and the cancer potency factor (q_1^*) and the maximum acceptable risk level for carcinogenic health endpoints. Three maximum ARLs are offered as options in the consumption limit tables for carcinogenic effects. **Note:** Selection of the most appropriate risk level is a risk management decision to be made at the State, local, or Tribal organization level and is discussed in Volume 3. Default values for the other variables are presented in Section 3 and described in greater detail in Section 2.

Current EPA risk values (cancer slope factors and RfDs) were used in the consumption limit calculations, as described in Section 3.2 and Section 5. Because there are new toxicity data for some target analytes not reflected in the current RfDs, readers are encouraged to review the toxicity data in the toxicological profile summaries given in Section 5. Methods for using this information to generate additional consumption limits are discussed in Section 2.3.

Most target analytes are known to cause multiple effects at elevated exposure levels, according to the results of animal studies. However, because the levels of chemical contaminants in fish typically ingested by consumers are lower than those used in animal studies, consumers may experience only one or a few of the known chronic effects, and/or only the more susceptible members of the population may develop the health endpoints of concern. For example, analytes that cause developmental toxicity pose a risk to children, pregnant women, nursing mothers, and women of reproductive age who are planning to have children.

Readers are advised to consider these data in reviewing the consumption limit tables and the toxicity discussions in Section 5. Alternatively, some effects are of concern to all exposed individuals. For example, women of reproductive age do not necessarily develop cancer or chronic exposure health effects at different rates than others in the general population. Consequently, the consumption limit tables for carcinogenic and chronic exposure toxicity for the general population are also applicable to this population of concern. **Note:** Women of reproductive age are defined as a separate population only for health intake limits based on developmental health effects.

Monthly consumption limits were developed for carcinogenic health endpoints and for chronic exposure health endpoints. Time-averaging periods of less than 1 month (e.g., 7-day, 10-day, or 14-day periods) can be used by risk assessors or managers to develop consumption limits for chronic exposure health endpoints as described in Section 3.3.6. **Note:** Both the monthly consumption limit tables (shown in this section) and short-term consumption limit tables (e.g., 7-day, 10-day, and 14-day) that may be developed by risk managers are based on the same chronic RfDs because RfDs for acute health endpoints are currently not available from the EPA RfD/RfC Workgroup (see Section 5). The use of these short-term time-averaging periods applies to short-term recreational fishers (e.g., vacationers), and monthly consumption limits pertain to both seasonal (e.g., 3-month) and year-round subsistence fishers.

Monthly consumption limit tables were developed for chronic systemic health effects for adults and young children for 23 and 22 of the 25 target analytes, respectively. Monthly consumption limit tables using reference doses based on developmental endpoints were calculated for both children and women of reproductive age for methylmercury only. Readers may wish to calculate consumption limits for young children based on developmental toxicity data discussed in Section 5 for some of the other target analytes as has been done for methylmercury. Section 2.3 describes a methodology that can be used to derive risk-based consumption limits for developmental and other toxicities.

Each consumption table lists, by chemical and fisher population, the maximum number of fish meals per unit time (monthly) that may be safely eaten by the population of concern. Limits are given for a range of fish meal sizes, population members (adults, women of reproductive age, and children), and chemical contaminant levels in fish tissues. In addition, for carcinogens, limits are provided for a range of maximum ARLs (10^{-4} to 10^{-6}). Readers may use these tables by: (1) determining the chemical contaminant concentration in fish surveyed in local fish sampling and analysis programs, (2) determining the meal size (and risk level, for carcinogens) they wish to use, (3) locating the point where these parameters intersect on the consumption limit table, and (4) reading the value for the maximum number of meals per month that may be safely eaten for each contaminant. All consumption limits have been rounded down to the nearest whole number of meal per month, with the exception of consumption limits of 0.5 meal per month, which are expressed as 6 meals/year in the tables.

Some of the contaminant concentrations shown in the consumption limit tables are below current laboratory detection limits. Because of improvements in chemical analysis procedures and associated technologies, however, chemical detection limits regularly decrease. The fish tissue concentrations that are currently below the limit of detection (LOD) are provided so that risk managers may use them once lower detection limits are achievable through improvements in analytical procedures. Current limits of detection are shown in the footnotes at the bottom of each of the consumption limit tables and additional information is provided in Appendix H. In the consumption tables, all fish tissue concentrations below the detection limits and the associated number of meals per month are shaded for emphasis. **Note:** The reader should be aware that detection limits presented here are derived from state-of-the-art State, regional, and national fish monitoring programs and may not be representative of detection limits achievable in all laboratories. The reader should consult with the analytical chemists in their State responsible for analyzing fish tissue samples to ensure that their detection limits are comparable to those presented. If the detection limits presented are lower than those achieved in the State's program, the reader should make necessary adjustments to the tables. The detection limits presented here are to provide general guidance on detection limits typically achievable using current analytical procedures. The reader should review Section 6 of Volume 1 for further information on chemical analysis procedures and associated detection and quantitation limits for the target analytes.

For the purposes of this document, safe fish consumption (represented by ">30" in the tables) has been defined as a consumption limit of 30 fish meals per month assuming no more than one meal per day) for the monthly consumption limit tables. In the case of the monthly consumption limits, where risk calculations indicate that more than 30 meals per month may be eaten without incurring undue risk of cancer or developing adverse chronic health effects, risk managers may choose not to issue a fish consumption advisory for the population of concern. **The definition of unsafe fish consumption used in this document (represented by "NONE" in the tables) is a consumption limit of less than one meal every 2 months (<6 meals/year) for the monthly tables.** Where risk calculations indicate that six fish meals per year may not be safely eaten, risk managers may choose to advise the public that no contaminated recreationally and subsistence caught fish should be consumed from designated waterbodies. It is the responsibility of risk managers to define safe and unsafe fish consumption limits, based on a variety of considerations, including adverse health effects and the consumption patterns of the population of concern. **Note:** The chemical contaminant concentrations in fish tissues listed are only those that fall between these two limits, and these fish tissue concentrations are not listed in a linear fashion. Directions and equations for calculating other meal consumption limits not found in the consumption limit tables are provided in Section 3.

Specific guidance concerning the use of these limits in a fish advisory program is provided in *Volume 3: Overview of Risk Management*. Readers are encouraged to review this and the other documents in the series regarding selection of

consumption limits for their fish advisory programs. Fish advisories involve many factors that are not represented in these tables, including societal, economic, nutritional, and cultural impacts. These factors also are discussed in Volume 3.

4.2 Consumption Limit Tables

Table 4-1 provides a directory of the consumption limit tables for all the target analytes recommended for analysis in fish sampling programs. Table 4-2 summarizes RfD, CSF, and detection limit values used to develop fish consumption limits. Tables 4-3 through 4-64 are consumption limit tables for carcinogenic and chronic systemic health endpoints for different chemicals. Readers using the tables as a basis for fish consumption advisories should note that the values given in the tables are valid **only** for single contaminants in single-species diets. Sections 3.4 and 3.5 describe methods for calculating consumption limits for multiple contaminant situations and for multiple fish species diets.

Table 4-1. Index to Monthly Consumption Limit Tables for Target Analytes

Target Analyte	Chronic Effects, General Population	Developmental Effects, Women of Reproductive Age	Chronic Effects, Children	Developmental Effects, Children	Carcinogenic Effects, General Population
Metals					
Arsenic (inorganic)	4-3	—	4-4	—	4-5
Cadmium	4-6	—	4-7	—	—
Methylmercury	4-8	4-9	—	4-10	—
Selenium	4-11	—	4-12	—	—
Tributyltin oxide	4-13	—	4-14	—	—
Organochlorine Pesticides					
Chlordane	4-15	—	4-16	—	4-17
DDT	4-18	—	4-19	—	4-20
Dicofol	4-21	—	4-22	—	4-23
Dieldrin	4-24	—	4-25	—	4-26
Endosulfan	4-27	—	4-28	—	—
Endrin	4-29	—	4-30	—	—
Heptachlor epoxide	4-31	—	4-32	—	4-33
Hexachlorobenzene	4-34	—	4-35	—	4-36
Lindane	4-37	—	4-38	—	4-39
Mirex	4-40	—	4-41	—	4-42
Toxaphene	4-43	—	4-44	—	4-45
Organophosphate Pesticide					
Chlorpyrifos	4-46	—	4-47	—	—
Diazinon	4-48	—	4-49	—	—
Disulfoton	4-50	—	4-51	—	—
Ethion	4-52	—	4-53	—	—
Terbufos	4-54	—	4-55	—	—
Chlorophenoxy Herbicides					
Oxyfluorfen	4-56	—	4-57	—	4-58
PAHs	NA	—	NA	—	4-59
PCBs	4-60	4-61	—	4-62	4-63
Dioxins/Furans	NA	—	NA	—	4-64

Table 4-2. Summary of RfD, CSF, and Detection Limit Values Used to Develop Fish Consumption Limits

Compound	Monthly Chronic General Population (RfD)	Monthly Developmental Women of Reproductive Age (RfD)	Monthly Chronic Children (RfD)	Monthly Developmental Children (RfD)	Carcinogeni city (Cancer slope factor)	Detection Limit (mg/kg)
Metals						
Arsenic (inorganic)	3×10^{-4}	—	3×10^{-4}	—	1.5	5×10^{-3}
Cadmium	1×10^{-3}	—	1×10^{-3}	—	NA	5×10^{-3}
Methylmercury`	1×10^{-4} (IRIS)	1×10^{-4} (IRIS)	—	1×10^{-4}	NA	1×10^{-3}
Selenium	5×10^{-3}	—	5×10^{-3}	—	NA	2×10^{-2}
Tributyltin oxide	3×10^{-5}	—	3×10^{-5}	—	NA	1×10^{-3}
Organochlorine Pesticides						
Chlordane	6×10^{-5}	—	6×10^{-5}	—	1.3	1×10^{-3}
DDT	5×10^{-4}	—	5×10^{-4}	—	3.4×10^{-1}	1×10^{-4}
Dicofol	1×10^{-3}	—	1×10^{-3}	—	3.4×10^{-1}	1×10^{-2}
Dieldrin	5×10^{-5}	—	5×10^{-5}	—	16	1×10^{-4}
Endosulfan	6×10^{-3}	—	6×10^{-3}	—	NA	5×10^{-3}
Endrin	3×10^{-4}	—	3×10^{-4}	—	NA	1×10^{-3}
Heptachlor epoxide	1.3×10^{-5}	—	1.3×10^{-5}	—	9.1	1×10^{-4}
Hexachlorobenzene	8×10^{-4}	—	8×10^{-4}	—	1.6	1×10^{-4}
Lindane	3×10^{-4}	—	3×10^{-4}	—	1.3	1×10^{-4}
Mirex	2×10^{-4}	—	2×10^{-4}	—	1.8	1×10^{-4}
Toxaphene	3.6×10^{-4} (OW/OPP)	—	3.6×10^{-4}	—	1.1	1×10^{-3}
Organophosphate Pesticide						
Chlorpyrifos	3×10^{-3}	—	3×10^{-3}	—	NA	2×10^{-3}
Diazinon	9×10^{-5}	—	9×10^{-5}	—	NA	1×10^{-2}
Disulfoton	4×10^{-5}	—	4×10^{-5}	—	NA	1×10^{-2}
Ethion	5×10^{-4}	—	5×10^{-4}	—	NA	2×10^{-2}
Terbufos	1.3×10^{-4}	—	1.3×10^{-4}	—	NA	5×10^{-2}
Chlorophenoxy Herbicides						
Oxyfluorfen	3×10^{-3}	—	3×10^{-3}	—	1.3×10^{-1}	1×10^{-2}
PAHs	NA	—	NA	—	7.3	1×10^{-6}
PCBs	2×10^{-5} (1254)	2×10^{-5} (1254)	—	2×10^{-5} (1254)	2.0	5×10^{-2}
Dioxins/Furans	NA	—	NA	—	1.56×10^5	5×10^{-7}

Table 4-3. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Arsenic (inorganic)

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.05	>30	>30	>30	>30
0.05	>30	>30	>30	28
0.06	>30	>30	>30	23
0.07	>30	>30	26	20
0.08	>30	>30	23	17
0.09	>30	>30	20	15
0.1	>30	28	18	14
0.2	28	14	9	7
0.3	18	9	6	4
0.4	14	7	4	3
0.5	11	5	3	2
0.6	9	4	3	2
0.7	8	4	2	2
0.8	7	3	2	1
0.9	6	3	2	1
1	5	2	1	1
2	2	1	6/yr	6/yr
3	1	6/yr	6/yr	NONE
4	1	6/yr	NONE	NONE
5	1	6/yr	NONE	NONE
6	6/yr	NONE	NONE	NONE
7	6/yr	NONE	NONE	NONE
8	6/yr	NONE	NONE	NONE
9	6/yr	NONE	NONE	NONE
10	6/yr	NONE	NONE	NONE
11	6/yr	NONE	NONE	NONE
>11	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=3 \times 10^{-4}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 5×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-4. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Arsenic (inorganic)

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.02	>30	>30	>30	>30
0.02	>30	>30	29	19
0.03	>30	>30	19	12
0.04	>30	29	14	9
0.05	>30	23	11	7
0.06	25	19	9	6
0.07	22	16	8	5
0.08	19	14	7	4
0.09	17	12	6	4
0.1	15	11	5	3
0.2	7	5	2	1
0.3	5	3	1	1
0.4	3	2	1	6/yr
0.5	3	2	1	6/yr
0.6	2	1	6/yr	6/yr
0.7	2	1	6/yr	6/yr
0.8	1	1	6/yr	NONE
0.9	1	1	6/yr	NONE
1	1	1	6/yr	NONE
2	6/yr	6/yr	NONE	NONE
3	6/yr	NONE	NONE	NONE
>3	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=3 \times 10^{-4}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 5×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-5. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - Arsenic (inorganic)**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.0002	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.0002	>30	>30	>30	>30	>30	>30	>30	>30	20	>30	>30	15
0.0004	>30	>30	>30	>30	>30	15	>30	>30	10	>30	>30	7
0.0006	>30	>30	20	>30	>30	10	>30	>30	6	>30	>30	5
0.0008	>30	>30	15	>30	>30	7	>30	>30	5	>30	>30	3
0.001	>30	>30	12	>30	>30	6	>30	>30	4	>30	>30	3
0.002	>30	>30	6	>30	>30	3	>30	20	2	>30	15	1
0.004	>30	>30	3	>30	15	1	>30	10	1	>30	7	6/yr
0.005	>30	24	2	>30	12	1	>30	8	6/yr	>30	6	6/yr
0.006	>30	20	2	>30	10	1	>30	6	6/yr	>30	5	6/yr
0.008	>30	15	1	>30	7	6/yr	>30	5	6/yr	>30	3	NONE
0.01	>30	12	1	>30	6	6/yr	>30	4	NONE	>30	3	NONE
0.02	>30	6	6/yr	>30	3	NONE	20	2	NONE	15	1	NONE
0.04	>30	3	NONE	15	1	NONE	10	1	NONE	7	6/yr	NONE
0.06	20	2	NONE	10	1	NONE	6	6/yr	NONE	5	6/yr	NONE
0.08	15	1	NONE	7	6/yr	NONE	5	6/yr	NONE	3	NONE	NONE
0.1	12	1	NONE	6	6/yr	NONE	4	NONE	NONE	3	NONE	NONE
0.2	6	6/yr	NONE	3	NONE	NONE	2	NONE	NONE	1	NONE	NONE
0.4	3	NONE	NONE	1	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE
0.6	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.8	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE
1	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
2	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>2	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,

EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Shaded values are below detection limit, 5×10^{-3} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3. Consumption limits are calculated based on an adult body weight of 70 kg and using a cancer potency factor of 1.5 per mg/kg/d. References for cancer potency factors are found in Section 5. All values were rounded down to the nearest whole meal size.

Table 4-6. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Cadmium

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.2	>30	>30	>30	>30
0.2	>30	>30	>30	23
0.3	>30	>30	20	15
0.4	>30	23	15	11
0.5	>30	18	12	9
0.6	>30	15	10	7
0.7	26	13	8	6
0.8	23	11	7	5
0.9	20	10	6	5
1	18	9	6	4
2	9	4	3	2
3	6	3	2	1
4	4	2	1	1
5	3	1	1	6/yr
6	3	1	1	6/yr
7	2	1	6/yr	6/yr
8	2	1	6/yr	6/yr
9	2	1	6/yr	6/yr
10	1	6/yr	6/yr	NONE
20	6/yr	NONE	NONE	NONE
30	6/yr	NONE	NONE	NONE
>30	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=1 \times 10^{-3}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 5×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-7. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Cadmium

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.05	>30	>30	>30	>30
0.05	>30	>30	>30	25
0.06	>30	>30	>30	21
0.07	>30	>30	27	18
0.08	>30	>30	24	16
0.09	>30	>30	21	14
0.1	>30	>30	19	12
0.2	25	19	9	6
0.3	17	12	6	4
0.4	12	9	4	3
0.5	10	7	3	2
0.6	8	6	3	2
0.7	7	5	2	1
0.8	6	4	2	1
0.9	5	4	2	1
1	5	3	1	1
2	2	1	6/yr	6/yr
3	1	1	6/yr	NONE
4	1	6/yr	NONE	NONE
5	1	6/yr	NONE	NONE
6	6/yr	6/yr	NONE	NONE
7	6/yr	6/yr	NONE	NONE
8	6/yr	NONE	NONE	NONE
9	6/yr	NONE	NONE	NONE
10	6/yr	NONE	NONE	NONE
>10	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=1 \times 10^{-3}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 5×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-8. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Methylmercury (IRIS RfD)

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.02	>30	>30	>30	>30
0.02	>30	>30	>30	23
0.03	>30	>30	20	15
0.04	>30	23	15	11
0.05	>30	18	12	9
0.06	>30	15	10	7
0.07	26	13	8	6
0.08	23	11	7	5
0.09	20	10	6	5
0.1	18	9	6	4
0.2	9	4	3	2
0.3	6	3	2	1
0.4	4	2	1	1
0.5	3	1	1	6/yr
0.6	3	1	1	6/yr
0.7	2	1	6/yr	6/yr
0.8	2	1	6/yr	6/yr
0.9	2	1	6/yr	6/yr
1	1	6/yr	6/yr	NONE
2	6/yr	NONE	NONE	NONE
3	6/yr	NONE	NONE	NONE
>3	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using RfD=1x10⁻⁴ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1 x 10⁻³ mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-9. Monthly Consumption Limits for Developmental Health Endpoints for Women of Reproductive Age - Methylmercury (IRIS RfD)

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.02	>30	>30	>30	>30
0.02	>30	>30	>30	23
0.03	>30	>30	20	15
0.04	>30	23	15	11
0.05	>30	18	12	9
0.06	>30	15	10	7
0.07	26	13	8	6
0.08	23	11	7	5
0.09	20	10	6	5
0.1	18	9	6	4
0.2	9	4	3	2
0.3	6	3	2	1
0.4	4	2	1	1
0.5	3	1	1	6/yr
0.6	3	1	1	6/yr
0.7	2	1	6/yr	6/yr
0.8	2	1	6/yr	6/yr
0.9	2	1	6/yr	6/yr
1	1	6/yr	6/yr	NONE
2	6/yr	NONE	NONE	NONE
3	6/yr	NONE	NONE	NONE
>3	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using RfD=1x10⁻⁴ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1 x 10⁻³ mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

4. RISK-BASED CONSUMPTION LIMIT TABLES

Table 4-10. Monthly Consumption Limits for Developmental Health Endpoints for Children - Methylmercury (IRIS RfD)

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.005	>30	>30	>30	>30
0.005	>30	>30	>30	25
0.006	>30	>30	>30	21
0.007	>30	>30	27	18
0.008	>30	>30	24	16
0.009	>30	>30	21	14
0.01	>30	>30	19	12
0.02	25	19	9	6
0.03	17	12	6	4
0.04	12	9	4	3
0.05	10	7	3	2
0.06	8	6	3	2
0.07	7	5	2	1
0.08	6	4	2	1
0.09	5	4	2	1
0.1	5	3	1	1
0.2	2	1	6/yr	6/yr
0.3	1	1	6/yr	NONE
0.4	1	6/yr	NONE	NONE
0.5	1	6/yr	NONE	NONE
0.6	6/yr	6/yr	NONE	NONE
0.7	6/yr	6/yr	NONE	NONE
0.8	6/yr	NONE	NONE	NONE
0.9	6/yr	NONE	NONE	NONE
1	6/yr	NONE	NONE	NONE
>1	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using RfD=1x10⁻⁴mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 1 x 10⁻³ mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-11. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Selenium

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.8	>30	>30	>30	>30
0.8	>30	>30	>30	29
0.9	>30	>30	>30	26
1	>30	>30	>30	23
2	>30	23	15	11
3	>30	15	10	7
4	23	11	7	5
5	18	9	6	4
6	15	7	5	3
7	13	6	4	3
8	11	5	3	2
9	10	5	3	2
10	9	4	3	2
20	4	2	1	1
30	3	1	1	6/yr
40	2	1	6/yr	6/yr
50	1	6/yr	6/yr	NONE
60	1	6/yr	6/yr	NONE
70	1	6/yr	NONE	NONE
80	1	6/yr	NONE	NONE
90	1	6/yr	NONE	NONE
100	6/yr	NONE	NONE	NONE
120	6/yr	NONE	NONE	NONE
140	6/yr	NONE	NONE	NONE
160	6/yr	NONE	NONE	NONE
180	6/yr	NONE	NONE	NONE
>180	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=5 \times 10^{-3}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 2×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-12. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Selenium

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.3	>30	>30	>30	>30
0.3	>30	>30	>30	21
0.4	>30	>30	24	16
0.5	>30	>30	19	12
0.6	>30	>30	16	10
0.7	>30	27	13	9
0.8	>30	24	12	8
0.9	28	21	10	7
1	25	19	9	6
2	12	9	4	3
3	8	6	3	2
4	6	4	2	1
5	5	3	1	1
6	4	3	1	1
7	3	2	1	6/yr
8	3	2	1	6/yr
9	2	2	1	6/yr
10	2	1	6/yr	6/yr
20	1	6/yr	NONE	NONE
30	6/yr	6/yr	NONE	NONE
40	6/yr	NONE	NONE	NONE
50	6/yr	NONE	NONE	NONE
>50	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=5 \times 10^{-3}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 2×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-13. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Tributyltin Oxide

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.004	>30	>30	>30	>30
0.005	>30	>30	>30	28
0.006	>30	>30	>30	23
0.007	>30	>30	26	20
0.008	>30	>30	23	17
0.009	>30	>30	20	15
0.01	>30	28	18	14
0.02	28	14	9	7
0.03	18	9	6	4
0.04	14	7	4	3
0.05	11	5	3	2
0.06	9	4	3	2
0.07	8	4	2	2
0.08	7	3	2	1
0.09	6	3	2	1
0.1	5	2	1	1
0.2	2	1	6/yr	6/yr
0.3	1	6/yr	6/yr	NONE
0.4	1	6/yr	NONE	NONE
0.5	1	6/yr	NONE	NONE
0.6	6/yr	NONE	NONE	NONE
0.7	6/yr	NONE	NONE	NONE
0.8	6/yr	NONE	NONE	NONE
0.9	6/yr	NONE	NONE	NONE
1	6/yr	NONE	NONE	NONE
>1	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=3 \times 10^{-5}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-14. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Tributyltin Oxide

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.002	>30	>30	>30	>30
0.002	>30	>30	29	19
0.003	>30	>30	19	12
0.004	>30	29	14	9
0.005	>30	23	11	7
0.006	25	19	9	6
0.007	22	16	8	5
0.008	19	14	7	4
0.009	17	12	6	4
0.01	15	11	5	3
0.02	7	5	2	1
0.03	5	3	1	1
0.04	3	2	1	6/yr
0.05	3	2	1	6/yr
0.06	2	1	6/yr	6/yr
0.07	2	1	6/yr	6/yr
0.08	1	1	6/yr	NONE
0.09	1	1	6/yr	NONE
0.1	1	1	6/yr	NONE
0.2	6/yr	6/yr	NONE	NONE
0.3	6/yr	NONE	NONE	NONE
>0.3	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=3 \times 10^{-5}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 1×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-15. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Chlordane

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.01	>30	>30	>30	>30
0.01	>30	>30	>30	28
0.02	>30	28	18	14
0.03	>30	18	12	9
0.04	28	14	9	7
0.05	22	11	7	5
0.06	18	9	6	4
0.07	16	8	5	4
0.08	14	7	4	3
0.09	12	6	4	3
0.1	11	5	3	2
0.2	5	2	1	1
0.3	3	1	1	6/yr
0.4	2	1	6/yr	6/yr
0.5	2	1	6/yr	6/yr
0.6	1	6/yr	6/yr	NONE
0.7	1	6/yr	6/yr	NONE
0.8	1	6/yr	NONE	NONE
0.9	1	6/yr	NONE	NONE
1	1	6/yr	NONE	NONE
2	6/yr	NONE	NONE	NONE
>2	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=6 \times 10^{-5}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-16. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Chlordane

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.003	>30	>30	>30	>30
0.003	>30	>30	>30	25
0.004	>30	>30	29	19
0.005	>30	>30	23	15
0.006	>30	>30	19	12
0.007	>30	>30	16	11
0.008	>30	29	14	9
0.009	>30	25	12	8
0.01	>30	23	11	7
0.02	15	11	5	3
0.03	10	7	3	2
0.04	7	5	2	1
0.05	6	4	2	1
0.06	5	3	1	1
0.07	4	3	1	1
0.08	3	2	1	6/yr
0.09	3	2	1	6/yr
0.1	3	2	1	6/yr
0.2	1	1	6/yr	NONE
0.3	1	6/yr	NONE	NONE
0.4	6/yr	6/yr	NONE	NONE
0.5	6/yr	NONE	NONE	NONE
0.6	6/yr	NONE	NONE	NONE
>0.6	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=6 \times 10^{-5}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-17. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - Chlordane**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.0002	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.0002	>30	>30	>30	>30	>30	>30	>30	>30	24	>30	>30	18
0.0004	>30	>30	>30	>30	>30	18	>30	>30	12	>30	>30	9
0.0006	>30	>30	23	>30	>30	12	>30	>30	8	>30	>30	6
0.0008	>30	>30	17	>30	>30	9	>30	>30	6	>30	>30	4
0.001	>30	>30	14	>30	>30	7	>30	>30	4	>30	>30	3
0.002	>30	>30	7	>30	>30	3	>30	24	2	>30	18	1
0.004	>30	>30	3	>30	18	1	>30	12	1	>30	9	6/yr
0.006	>30	23	2	>30	12	1	>30	8	6/yr	>30	6	6/yr
0.008	>30	17	1	>30	9	6/yr	>30	6	6/yr	>30	4	NONE
0.01	>30	14	1	>30	7	6/yr	>30	4	NONE	>30	3	NONE
0.02	>30	7	6/yr	>30	3	NONE	24	2	NONE	18	1	NONE
0.04	>30	3	NONE	18	1	NONE	12	1	NONE	9	6/yr	NONE
0.06	23	2	NONE	12	1	NONE	8	6/yr	NONE	6	6/yr	NONE
0.08	17	1	NONE	9	6/yr	NONE	6	6/yr	NONE	4	NONE	NONE
0.1	14	1	NONE	7	6/yr	NONE	4	NONE	NONE	3	NONE	NONE
0.2	7	6/yr	NONE	3	NONE	NONE	2	NONE	NONE	1	NONE	NONE
0.4	3	NONE	NONE	1	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE
0.6	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.8	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE
1	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
2	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>2	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,

EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Shaded values are below detection limit, 1×10^{-3} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3. Consumption limits are calculated based on an adult body weight of 70 kg and using a cancer potency factor of 1.3 per mg/kg/d. References for cancer potency factors are found in Section 5. All values were rounded down to the nearest whole meal size.

Table 4-18. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - DDT

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.08	>30	>30	>30	>30
0.08	>30	>30	>30	29
0.09	>30	>30	>30	26
0.1	>30	>30	>30	23
0.2	>30	23	15	11
0.3	>30	15	10	7
0.4	23	11	7	5
0.5	18	9	6	4
0.6	15	7	5	3
0.7	13	6	4	3
0.8	11	5	3	2
0.9	10	5	3	2
1	9	4	3	2
2	4	2	1	1
3	3	1	1	6/yr
4	2	1	6/yr	6/yr
5	1	6/yr	6/yr	NONE
6	1	6/yr	6/yr	NONE
7	1	6/yr	NONE	NONE
8	1	6/yr	NONE	NONE
9	1	6/yr	NONE	NONE
10	6/yr	NONE	NONE	NONE
12	6/yr	NONE	NONE	NONE
14	6/yr	NONE	NONE	NONE
16	6/yr	NONE	NONE	NONE
18	6/yr	NONE	NONE	NONE
>18	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=5 \times 10^{-4}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-19. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - DDT

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.03	>30	>30	>30	>30
0.03	>30	>30	>30	21
0.04	>30	>30	24	16
0.05	>30	>30	19	12
0.06	>30	>30	16	10
0.07	>30	27	13	9
0.08	>30	24	12	8
0.09	28	21	10	7
0.1	25	19	9	6
0.2	12	9	4	3
0.3	8	6	3	2
0.4	6	4	2	1
0.5	5	3	1	1
0.6	4	3	1	1
0.7	3	2	1	6/yr
0.8	3	2	1	6/yr
0.9	2	2	1	6/yr
1	2	1	6/yr	6/yr
2	1	6/yr	NONE	NONE
3	6/yr	6/yr	NONE	NONE
4	6/yr	NONE	NONE	NONE
5	6/yr	NONE	NONE	NONE
>5	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=5 \times 10^{-4}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-20. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - DDT**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.0006	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.0006	>30	>30	>30	>30	>30	>30	>30	>30	30	>30	>30	23
0.0008	>30	>30	>30	>30	>30	>30	>30	>30	22	>30	>30	17
0.001	>30	>30	>30	>30	>30	27	>30	>30	18	>30	>30	13
0.002	>30	>30	27	>30	>30	13	>30	>30	9	>30	>30	6
0.004	>30	>30	13	>30	>30	6	>30	>30	4	>30	>30	3
0.006	>30	>30	9	>30	>30	4	>30	30	3	>30	23	2
0.008	>30	>30	6	>30	>30	3	>30	22	2	>30	17	1
0.01	>30	>30	5	>30	27	2	>30	18	1	>30	13	1
0.02	>30	27	2	>30	13	1	>30	9	6/yr	>30	6	6/yr
0.04	>30	13	1	>30	6	6/yr	>30	4	NONE	>30	3	NONE
0.06	>30	9	6/yr	>30	4	NONE	30	3	NONE	23	2	NONE
0.08	>30	6	6/yr	>30	3	NONE	22	2	NONE	17	1	NONE
0.1	>30	5	6/yr	27	2	NONE	18	1	NONE	13	1	NONE
0.2	27	2	NONE	13	1	NONE	9	6/yr	NONE	6	6/yr	NONE
0.4	13	1	NONE	6	6/yr	NONE	4	NONE	NONE	3	NONE	NONE
0.6	9	6/yr	NONE	4	NONE	NONE	3	NONE	NONE	2	NONE	NONE
0.8	6	6/yr	NONE	3	NONE	NONE	2	NONE	NONE	1	NONE	NONE
1	5	6/yr	NONE	2	NONE	NONE	1	NONE	NONE	1	NONE	NONE
2	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
4	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
6	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
8	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
10	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>10	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,

EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a The detection limit is 1×10^{-4} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3. Consumption limits are calculated based on an adult body weight of 70 kg and using a cancer potency factor of 0.34 per mg/kg/d. References for cancer potency factors are found in Section 5. All values were rounded down to the nearest whole meal size.

Table 4-21. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Dicofol

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.2	>30	>30	>30	>30
0.2	>30	>30	>30	23
0.3	>30	>30	20	15
0.4	>30	23	15	11
0.5	>30	18	12	9
0.6	>30	15	10	7
0.7	26	13	8	6
0.8	23	11	7	5
0.9	20	10	6	5
1	18	9	6	4
2	9	4	3	2
3	6	3	2	1
4	4	2	1	1
5	3	1	1	6/yr
6	3	1	1	6/yr
7	2	1	6/yr	6/yr
8	2	1	6/yr	6/yr
9	2	1	6/yr	6/yr
10	1	6/yr	6/yr	NONE
15	1	6/yr	NONE	NONE
20	6/yr	NONE	NONE	NONE
25	6/yr	NONE	NONE	NONE
30	6/yr	NONE	NONE	NONE
35	6/yr	NONE	NONE	NONE
>35	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=1 \times 10^{-3}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-22. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Dicofol

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.05	>30	>30	>30	>30
0.05	>30	>30	>30	25
0.06	>30	>30	>30	21
0.07	>30	>30	27	18
0.08	>30	>30	24	16
0.09	>30	>30	21	14
0.1	>30	>30	19	12
0.2	25	19	9	6
0.3	17	12	6	4
0.4	12	9	4	3
0.5	10	7	3	2
0.6	8	6	3	2
0.7	7	5	2	1
0.8	6	4	2	1
0.9	5	4	2	1
1	5	3	1	1
2	2	1	6/yr	6/yr
3	1	1	6/yr	NONE
4	1	6/yr	NONE	NONE
5	1	6/yr	NONE	NONE
6	6/yr	6/yr	NONE	NONE
7	6/yr	6/yr	NONE	NONE
8	6/yr	NONE	NONE	NONE
9	6/yr	NONE	NONE	NONE
10	6/yr	NONE	NONE	NONE
>10	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=1 \times 10^{-3}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 1×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-23. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - Dicofol**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.0006	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.0006	>30	>30	>30	>30	>30	>30	>30	>30	30	>30	>30	23
0.0008	>30	>30	>30	>30	>30	>30	>30	>30	22	>30	>30	17
0.001	>30	>30	>30	>30	>30	27	>30	>30	18	>30	>30	13
0.002	>30	>30	27	>30	>30	13	>30	>30	9	>30	>30	6
0.004	>30	>30	13	>30	>30	6	>30	>30	4	>30	>30	3
0.006	>30	>30	9	>30	>30	4	>30	30	3	>30	23	2
0.008	>30	>30	6	>30	>30	3	>30	22	2	>30	17	1
0.01	>30	>30	5	>30	27	2	>30	18	1	>30	13	1
0.02	>30	27	2	>30	13	1	>30	9	6/yr	>30	6	6/yr
0.04	>30	13	1	>30	6	6/yr	>30	4	NONE	>30	3	NONE
0.06	>30	9	6/yr	>30	4	NONE	30	3	NONE	23	2	NONE
0.08	>30	6	6/yr	>30	3	NONE	22	2	NONE	17	1	NONE
0.1	>30	5	6/yr	27	2	NONE	18	1	NONE	13	1	NONE
0.2	27	2	NONE	13	1	NONE	9	6/yr	NONE	6	6/yr	NONE
0.4	13	1	NONE	6	6/yr	NONE	4	NONE	NONE	3	NONE	NONE
0.6	9	6/yr	NONE	4	NONE	NONE	3	NONE	NONE	2	NONE	NONE
0.8	6	6/yr	NONE	3	NONE	NONE	2	NONE	NONE	1	NONE	NONE
1	5	6/yr	NONE	2	NONE	NONE	1	NONE	NONE	1	NONE	NONE
2	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
4	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
6	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
8	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
10	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>10	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,

EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Shaded values are below detection limit, 1×10^{-2} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3. Consumption limits are calculated based on an adult body weight of 70 kg and using a cancer potency factor of 0.34 per mg/kg/d. References for cancer potency factors are found in Section 5. All values were rounded down to the nearest whole meal size.

Table 4-24. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Dieldrin

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.008	>30	>30	>30	>30
0.008	>30	>30	>30	29
0.009	>30	>30	>30	26
0.01	>30	>30	>30	23
0.02	>30	23	15	11
0.03	>30	15	10	7
0.04	23	11	7	5
0.05	18	9	6	4
0.06	15	7	5	3
0.07	13	6	4	3
0.08	11	5	3	2
0.09	10	5	3	2
0.1	9	4	3	2
0.2	4	2	1	1
0.3	3	1	1	6/yr
0.4	2	1	6/yr	6/yr
0.5	1	6/yr	6/yr	NONE
0.6	1	6/yr	6/yr	NONE
0.7	1	6/yr	NONE	NONE
0.8	1	6/yr	NONE	NONE
0.9	1	6/yr	NONE	NONE
1	6/yr	NONE	NONE	NONE
>1	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=5 \times 10^{-5}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-25. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Dieldrin

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.003	>30	>30	>30	>30
0.003	>30	>30	>30	21
0.004	>30	>30	24	16
0.005	>30	>30	19	12
0.006	>30	>30	16	10
0.007	>30	27	13	9
0.008	>30	24	12	8
0.009	28	21	10	7
0.01	25	19	9	6
0.02	12	9	4	3
0.03	8	6	3	2
0.04	6	4	2	1
0.05	5	3	1	1
0.06	4	3	1	1
0.07	3	2	1	6/yr
0.08	3	2	1	6/yr
0.09	2	2	1	6/yr
0.1	2	1	6/yr	6/yr
0.2	1	6/yr	NONE	NONE
0.3	6/yr	6/yr	NONE	NONE
0.4	6/yr	NONE	NONE	NONE
0.5	6/yr	NONE	NONE	NONE
>0.5	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=5 \times 10^{-5}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-26. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - Dieldrin**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.00001	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.00001	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	29
0.00002	>30	>30	>30	>30	>30	29	>30	>30	19	>30	>30	14
0.00004	>30	>30	29	>30	>30	14	>30	>30	9	>30	>30	7
0.00006	>30	>30	19	>30	>30	9	>30	>30	6	>30	>30	4
0.00008	>30	>30	14	>30	>30	7	>30	>30	4	>30	>30	3
0.0001	>30	>30	11	>30	>30	5	>30	>30	3	>30	29	2
0.0002	>30	>30	5	>30	29	2	>30	19	1	>30	14	1
0.0004	>30	29	2	>30	14	1	>30	9	6/yr	>30	7	6/yr
0.0006	>30	19	1	>30	9	6/yr	>30	6	6/yr	>30	4	NONE
0.0008	>30	14	1	>30	7	6/yr	>30	4	NONE	>30	3	NONE
0.001	>30	11	1	>30	5	6/yr	>30	3	NONE	29	2	NONE
0.002	>30	5	6/yr	29	2	NONE	19	1	NONE	14	1	NONE
0.004	29	2	NONE	14	1	NONE	9	6/yr	NONE	7	6/yr	NONE
0.006	19	1	NONE	9	6/yr	NONE	6	6/yr	NONE	4	NONE	NONE
0.008	14	1	NONE	7	6/yr	NONE	4	NONE	NONE	3	NONE	NONE
0.01	11	1	NONE	5	6/yr	NONE	3	NONE	NONE	2	NONE	NONE
0.02	5	6/yr	NONE	2	NONE	NONE	1	NONE	NONE	1	NONE	NONE
0.04	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.06	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE
0.08	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
0.1	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
0.2	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>0.2	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,

EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Shaded values are below detection limit, 1×10^{-4} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3. Consumption limits are calculated based on an adult body weight of 70 kg and using a cancer potency factor of 16 per mg/kg/d. References for cancer potency factors are found in Section 5. All values were rounded down to the nearest whole meal size.

Table 4-27. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Endosulfan

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<1	>30	>30	>30	>30
1	>30	>30	>30	28
2	>30	28	18	14
3	>30	18	12	9
4	28	14	9	7
5	22	11	7	5
6	18	9	6	4
7	16	8	5	4
8	14	7	4	3
9	12	6	4	3
10	11	5	3	2
20	5	2	1	1
30	3	1	1	6/yr
40	2	1	6/yr	6/yr
50	2	1	6/yr	6/yr
60	1	6/yr	6/yr	NONE
70	1	6/yr	6/yr	NONE
80	1	6/yr	NONE	NONE
90	1	6/yr	NONE	NONE
100	1	6/yr	NONE	NONE
120	6/yr	NONE	NONE	NONE
140	6/yr	NONE	NONE	NONE
160	6/yr	NONE	NONE	NONE
180	6/yr	NONE	NONE	NONE
200	6/yr	NONE	NONE	NONE
220	6/yr	NONE	NONE	NONE
>220	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=6 \times 10^{-3}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 5×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-28. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Endosulfan

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.3	>30	>30	>30	>30
0.3	>30	>30	>30	25
0.4	>30	>30	29	19
0.5	>30	>30	23	15
0.6	>30	>30	19	12
0.7	>30	>30	16	11
0.8	>30	29	14	9
0.9	>30	25	12	8
1	>30	23	11	7
2	15	11	5	3
3	10	7	3	2
4	7	5	2	1
5	6	4	2	1
6	5	3	1	1
7	4	3	1	1
8	3	2	1	6/yr
9	3	2	1	6/yr
10	3	2	1	6/yr
20	1	1	6/yr	NONE
30	1	6/yr	NONE	NONE
40	6/yr	6/yr	NONE	NONE
50	6/yr	NONE	NONE	NONE
60	6/yr	NONE	NONE	NONE
>60	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=6 \times 10^{-3}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 5×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-29. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Endrin

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.05	>30	>30	>30	>30
0.05	>30	>30	>30	28
0.06	>30	>30	>30	23
0.07	>30	>30	26	20
0.08	>30	>30	23	17
0.09	>30	>30	20	15
0.1	>30	28	18	14
0.2	28	14	9	7
0.3	18	9	6	4
0.4	14	7	4	3
0.5	11	5	3	2
0.6	9	4	3	2
0.7	8	4	2	2
0.8	7	3	2	1
0.9	6	3	2	1
1	5	2	1	1
2	2	1	6/yr	6/yr
3	1	6/yr	6/yr	NONE
4	1	6/yr	NONE	NONE
5	1	6/yr	NONE	NONE
6	6/yr	NONE	NONE	NONE
7	6/yr	NONE	NONE	NONE
8	6/yr	NONE	NONE	NONE
9	6/yr	NONE	NONE	NONE
10	6/yr	NONE	NONE	NONE
11	6/yr	NONE	NONE	NONE
>11	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=3 \times 10^{-4}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-30. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Endrin

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.02	>30	>30	>30	>30
0.02	>30	>30	29	19
0.03	>30	>30	19	12
0.04	>30	29	14	9
0.05	>30	23	11	7
0.06	25	19	9	6
0.07	22	16	8	5
0.08	19	14	7	4
0.09	17	12	6	4
0.1	15	11	5	3
0.2	7	5	2	1
0.3	5	3	1	1
0.4	3	2	1	6/yr
0.5	3	2	1	6/yr
0.6	2	1	6/yr	6/yr
0.7	2	1	6/yr	6/yr
0.8	1	1	6/yr	NONE
0.9	1	1	6/yr	NONE
1	1	1	6/yr	NONE
2	6/yr	6/yr	NONE	NONE
3	6/yr	NONE	NONE	NONE
>3	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=3 \times 10^{-4}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-31. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Heptachlor Epoxide

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.002	>30	>30	>30	>30
0.002	>30	>30	>30	30
0.003	>30	>30	27	20
0.004	>30	30	20	15
0.005	>30	24	16	12
0.006	>30	20	13	10
0.007	>30	17	11	8
0.008	30	15	10	7
0.009	26	13	9	6
0.01	24	12	8	6
0.02	12	6	4	3
0.03	8	4	2	2
0.04	6	3	2	1
0.05	4	2	1	1
0.06	4	2	1	1
0.07	3	1	1	6/yr
0.08	3	1	1	6/yr
0.09	2	1	6/yr	6/yr
0.1	2	1	6/yr	6/yr
0.2	1	6/yr	NONE	NONE
0.3	6/yr	NONE	NONE	NONE
0.4	6/yr	NONE	NONE	NONE
>0.4	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=1.3 \times 10^{-5}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-32. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Heptachlor Epoxide

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.0006	>30	>30	>30	>30
0.0006	>30	>30	>30	28
0.0007	>30	>30	>30	24
0.0008	>30	>30	>30	21
0.0009	>30	>30	28	18
0.001	>30	>30	25	16
0.002	>30	25	12	8
0.003	22	16	8	5
0.004	16	12	6	4
0.005	13	10	5	3
0.006	11	8	4	2
0.007	9	7	3	2
0.008	8	6	3	2
0.009	7	5	2	1
0.01	6	5	2	1
0.02	3	2	1	6/yr
0.03	2	1	6/yr	6/yr
0.04	1	1	6/yr	NONE
0.05	1	1	6/yr	NONE
0.06	1	6/yr	NONE	NONE
0.07	6/yr	6/yr	NONE	NONE
0.08	6/yr	6/yr	NONE	NONE
0.09	6/yr	6/yr	NONE	NONE
0.1	6/yr	6/yr	NONE	NONE
>0.1	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=1.3 \times 10^{-5}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-33. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - Heptachlor Epoxide**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.00002	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.00002	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	25
0.00004	>30	>30	>30	>30	>30	25	>30	>30	17	>30	>30	12
0.00006	>30	>30	>30	>30	>30	17	>30	>30	11	>30	>30	8
0.00008	>30	>30	25	>30	>30	12	>30	>30	8	>30	>30	6
0.0001	>30	>30	20	>30	>30	10	>30	>30	6	>30	>30	5
0.0002	>30	>30	10	>30	>30	5	>30	>30	3	>30	25	2
0.0004	>30	>30	5	>30	25	2	>30	17	1	>30	12	1
0.0006	>30	>30	3	>30	17	1	>30	11	1	>30	8	6/yr
0.0008	>30	25	2	>30	12	1	>30	8	6/yr	>30	6	6/yr
0.001	>30	20	2	>30	10	1	>30	6	6/yr	>30	5	6/yr
0.002	>30	10	1	>30	5	6/yr	>30	3	NONE	25	2	NONE
0.004	>30	5	6/yr	25	2	NONE	17	1	NONE	12	1	NONE
0.006	>30	3	NONE	17	1	NONE	11	1	NONE	8	6/yr	NONE
0.008	25	2	NONE	12	1	NONE	8	6/yr	NONE	6	6/yr	NONE
0.01	20	2	NONE	10	1	NONE	6	6/yr	NONE	5	6/yr	NONE
0.02	10	1	NONE	5	6/yr	NONE	3	NONE	NONE	2	NONE	NONE
0.04	5	6/yr	NONE	2	NONE	NONE	1	NONE	NONE	1	NONE	NONE
0.06	3	NONE	NONE	1	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE
0.08	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.1	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.2	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
0.3	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
0.4	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>0.4	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,

EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Shaded values are below detection limit, 1×10^{-4} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3. Consumption limits are calculated based on an adult body weight of 70 kg and using a cancer potency factor of 9.1 per mg/kg/d. References for cancer potency factors are found in Section 5. All values were rounded down to the nearest whole meal size.

Table 4-34. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Hexachlorobenzene

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.2	>30	>30	>30	>30
0.2	>30	>30	24	18
0.3	>30	25	16	12
0.4	>30	18	12	9
0.5	29	15	9	7
0.6	24	12	8	6
0.7	21	10	7	5
0.8	18	9	6	4
0.9	16	8	5	4
1	14	7	4	3
2	7	3	2	1
3	4	2	1	1
4	3	1	1	6/yr
5	2	1	6/yr	6/yr
6	2	1	6/yr	6/yr
7	2	1	6/yr	6/yr
8	1	6/yr	6/yr	NONE
9	1	6/yr	6/yr	NONE
10	1	6/yr	NONE	NONE
15	6/yr	6/yr	NONE	NONE
20	6/yr	NONE	NONE	NONE
25	6/yr	NONE	NONE	NONE
>25	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=8 \times 10^{-4}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-35. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Hexachlorobenzene

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.04	>30	>30	>30	>30
0.04	>30	>30	>30	25
0.05	>30	>30	>30	20
0.06	>30	>30	25	17
0.07	>30	>30	22	14
0.08	>30	>30	19	12
0.09	>30	>30	17	11
0.1	>30	30	15	10
0.2	20	15	7	5
0.3	13	10	5	3
0.4	10	7	3	2
0.5	8	6	3	2
0.6	6	5	2	1
0.7	5	4	2	1
0.8	5	3	1	1
0.9	4	3	1	1
1	4	3	1	1
2	2	1	6/yr	6/yr
3	1	1	6/yr	NONE
4	1	6/yr	NONE	NONE
5	6/yr	6/yr	NONE	NONE
6	6/yr	6/yr	NONE	NONE
7	6/yr	NONE	NONE	NONE
8	6/yr	NONE	NONE	NONE
>8	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=8 \times 10^{-4}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-36. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - Hexachlorobenzene**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.0001	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.0001	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	29
0.0002	>30	>30	>30	>30	>30	29	>30	>30	19	>30	>30	14
0.0004	>30	>30	29	>30	>30	14	>30	>30	9	>30	>30	7
0.0006	>30	>30	19	>30	>30	9	>30	>30	6	>30	>30	4
0.0008	>30	>30	14	>30	>30	7	>30	>30	4	>30	>30	3
0.001	>30	>30	11	>30	>30	5	>30	>30	3	>30	29	2
0.002	>30	>30	5	>30	29	2	>30	19	1	>30	14	1
0.004	>30	29	2	>30	14	1	>30	9	6/yr	>30	7	6/yr
0.006	>30	19	1	>30	9	6/yr	>30	6	6/yr	>30	4	NONE
0.008	>30	14	1	>30	7	6/yr	>30	4	NONE	>30	3	NONE
0.01	>30	11	1	>30	5	6/yr	>30	3	NONE	29	2	NONE
0.02	>30	5	6/yr	29	2	NONE	19	1	NONE	14	1	NONE
0.04	29	2	NONE	14	1	NONE	9	6/yr	NONE	7	6/yr	NONE
0.06	19	1	NONE	9	6/yr	NONE	6	6/yr	NONE	4	NONE	NONE
0.08	14	1	NONE	7	6/yr	NONE	4	NONE	NONE	3	NONE	NONE
0.1	11	1	NONE	5	6/yr	NONE	3	NONE	NONE	2	NONE	NONE
0.2	5	6/yr	NONE	2	NONE	NONE	1	NONE	NONE	1	NONE	NONE
0.4	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.6	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE
0.8	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
1	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
2	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>2	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,

EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Shaded values are below detection limit, 1×10^{-4} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3. Consumption limits are calculated based on an adult body weight of 70 kg and using a cancer potency factor of 1.6 per mg/kg/d. References for cancer potency factors are found in Section 5. All values were rounded down to the nearest whole meal size.

Table 4-37. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Lindane

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.05	>30	>30	>30	>30
0.05	>30	>30	>30	28
0.06	>30	>30	>30	23
0.07	>30	>30	26	20
0.08	>30	>30	23	17
0.09	>30	>30	20	15
0.1	>30	28	18	14
0.2	28	14	9	7
0.3	18	9	6	4
0.4	14	7	4	3
0.5	11	5	3	2
0.6	9	4	3	2
0.7	8	4	2	2
0.8	7	3	2	1
0.9	6	3	2	1
1	5	2	1	1
2	2	1	6/yr	6/yr
3	1	6/yr	6/yr	NONE
4	1	6/yr	NONE	NONE
5	1	6/yr	NONE	NONE
6	6/yr	NONE	NONE	NONE
7	6/yr	NONE	NONE	NONE
8	6/yr	NONE	NONE	NONE
9	6/yr	NONE	NONE	NONE
10	6/yr	NONE	NONE	NONE
11	6/yr	NONE	NONE	NONE
>11	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=3 \times 10^{-4}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-38. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Lindane

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.02	>30	>30	>30	>30
0.02	>30	>30	29	19
0.03	>30	>30	19	12
0.04	>30	29	14	9
0.05	>30	23	11	7
0.06	25	19	9	6
0.07	22	16	8	5
0.08	19	14	7	4
0.09	17	12	6	4
0.1	15	11	5	3
0.2	7	5	2	1
0.3	5	3	1	1
0.4	3	2	1	6/yr
0.5	3	2	1	6/yr
0.6	2	1	6/yr	6/yr
0.7	2	1	6/yr	6/yr
0.8	1	1	6/yr	NONE
0.9	1	1	6/yr	NONE
1	1	1	6/yr	NONE
2	6/yr	6/yr	NONE	NONE
3	6/yr	NONE	NONE	NONE
>3	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=3 \times 10^{-4}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-39. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - Lindane**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.0002	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.0002	>30	>30	>30	>30	>30	>30	>30	>30	24	>30	>30	18
0.0004	>30	>30	>30	>30	>30	18	>30	>30	12	>30	>30	9
0.0006	>30	>30	23	>30	>30	12	>30	>30	8	>30	>30	6
0.0008	>30	>30	17	>30	>30	9	>30	>30	6	>30	>30	4
0.001	>30	>30	14	>30	>30	7	>30	>30	4	>30	>30	3
0.002	>30	>30	7	>30	>30	3	>30	24	2	>30	18	1
0.004	>30	>30	3	>30	18	1	>30	12	1	>30	9	6/yr
0.006	>30	23	2	>30	12	1	>30	8	6/yr	>30	6	6/yr
0.008	>30	17	1	>30	9	6/yr	>30	6	6/yr	>30	4	NONE
0.01	>30	14	1	>30	7	6/yr	>30	4	NONE	>30	3	NONE
0.02	>30	7	6/yr	>30	3	NONE	24	2	NONE	18	1	NONE
0.04	>30	3	NONE	18	1	NONE	12	1	NONE	9	6/yr	NONE
0.06	23	2	NONE	12	1	NONE	8	6/yr	NONE	6	6/yr	NONE
0.08	17	1	NONE	9	6/yr	NONE	6	6/yr	NONE	4	NONE	NONE
0.1	14	1	NONE	7	6/yr	NONE	4	NONE	NONE	3	NONE	NONE
0.2	7	6/yr	NONE	3	NONE	NONE	2	NONE	NONE	1	NONE	NONE
0.4	3	NONE	NONE	1	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE
0.6	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.8	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE
1	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
2	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>2	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,
EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a The detection limit is 1×10^{-4} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3.
Consumption limits are calculated based on an adult body weight of 70 kg
and using a cancer potency factor of 1.3 per mg/kg/d.
References for cancer potency factors are found in Section 5.
All values were rounded down to the nearest whole meal size.

Table 4-40. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Mirex

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.04	>30	>30	>30	>30
0.04	>30	>30	>30	23
0.05	>30	>30	24	18
0.06	>30	>30	20	15
0.07	>30	26	17	13
0.08	>30	23	15	11
0.09	>30	20	13	10
0.1	>30	18	12	9
0.2	18	9	6	4
0.3	12	6	4	3
0.4	9	4	3	2
0.5	7	3	2	1
0.6	6	3	2	1
0.7	5	2	1	1
0.8	4	2	1	1
0.9	4	2	1	1
1	3	1	1	6/yr
2	1	6/yr	6/yr	NONE
3	1	6/yr	NONE	NONE
4	6/yr	NONE	NONE	NONE
5	6/yr	NONE	NONE	NONE
6	6/yr	NONE	NONE	NONE
7	6/yr	NONE	NONE	NONE
>7	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=2 \times 10^{-4}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-41. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Mirex

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.01	>30	>30	>30	>30
0.01	>30	>30	>30	25
0.02	>30	>30	19	12
0.03	>30	25	12	8
0.04	25	19	9	6
0.05	20	15	7	5
0.06	17	12	6	4
0.07	14	11	5	3
0.08	12	9	4	3
0.09	11	8	4	2
0.1	10	7	3	2
0.2	5	3	1	1
0.3	3	2	1	6/yr
0.4	2	1	6/yr	6/yr
0.5	2	1	6/yr	6/yr
0.6	1	1	6/yr	NONE
0.7	1	1	6/yr	NONE
0.8	1	6/yr	NONE	NONE
0.9	1	6/yr	NONE	NONE
1	1	6/yr	NONE	NONE
2	6/yr	NONE	NONE	NONE
>2	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=2 \times 10^{-4}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 1×10^{-4} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-42. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - Mirex**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.0001	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.0001	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	26
0.0002	>30	>30	>30	>30	>30	26	>30	>30	17	>30	>30	13
0.0004	>30	>30	25	>30	>30	13	>30	>30	8	>30	>30	6
0.0006	>30	>30	17	>30	>30	8	>30	>30	5	>30	>30	4
0.0008	>30	>30	12	>30	>30	6	>30	>30	4	>30	>30	3
0.001	>30	>30	10	>30	>30	5	>30	>30	3	>30	26	2
0.002	>30	>30	5	>30	26	2	>30	17	1	>30	13	1
0.004	>30	25	2	>30	13	1	>30	8	6/yr	>30	6	6/yr
0.006	>30	17	1	>30	8	6/yr	>30	5	6/yr	>30	4	NONE
0.008	>30	12	1	>30	6	6/yr	>30	4	NONE	>30	3	NONE
0.01	>30	10	1	>30	5	6/yr	>30	3	NONE	26	2	NONE
0.02	>30	5	6/yr	26	2	NONE	17	1	NONE	13	1	NONE
0.04	25	2	NONE	13	1	NONE	8	6/yr	NONE	6	6/yr	NONE
0.06	17	1	NONE	8	6/yr	NONE	5	6/yr	NONE	4	NONE	NONE
0.08	12	1	NONE	6	6/yr	NONE	4	NONE	NONE	3	NONE	NONE
0.1	10	1	NONE	5	6/yr	NONE	3	NONE	NONE	2	NONE	NONE
0.2	5	6/yr	NONE	2	NONE	NONE	1	NONE	NONE	1	NONE	NONE
0.4	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.6	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE
0.8	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
1	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
2	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>2	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,

EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Shaded values are below detection limit, 1×10^{-4} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3. Consumption limits are calculated based on an adult body weight of 70 kg and using a cancer potency factor of 1.8 per mg/kg/d. References for cancer potency factors are found in Section 5. All values were rounded down to the nearest whole meal size.

Table 4-43. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Toxaphene (OW/OPP RfD)

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.06	>30	>30	>30	>30
0.06	>30	>30	>30	28
0.07	>30	>30	>30	24
0.08	>30	>30	28	21
0.09	>30	>30	24	18
0.1	>30	>30	22	16
0.2	>30	16	11	8
0.3	22	11	7	5
0.4	16	8	5	4
0.5	13	6	4	3
0.6	11	5	3	2
0.7	9	4	3	2
0.8	8	4	2	2
0.9	7	3	2	1
1	6	3	2	1
2	3	1	1	6/yr
3	2	1	6/yr	6/yr
4	1	6/yr	6/yr	NONE
5	1	6/yr	NONE	NONE
6	1	6/yr	NONE	NONE
7	6/yr	NONE	NONE	NONE
8	6/yr	NONE	NONE	NONE
9	6/yr	NONE	NONE	NONE
10	6/yr	NONE	NONE	NONE
11	6/yr	NONE	NONE	NONE
12	6/yr	NONE	NONE	NONE
13	6/yr	NONE	NONE	NONE
>13	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using RfD=3.6x10⁻⁴ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1 x 10⁻³ mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-44. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Toxaphene (OW/OPP RfD)

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.02	>30	>30	>30	>30
0.02	>30	>30	>30	23
0.03	>30	>30	23	15
0.04	>30	>30	17	11
0.05	>30	27	13	9
0.06	>30	23	11	7
0.07	26	19	9	6
0.08	23	17	8	5
0.09	20	15	7	5
0.1	18	13	6	4
0.2	9	6	3	2
0.3	6	4	2	1
0.4	4	3	1	1
0.5	3	2	1	6/yr
0.6	3	2	1	6/yr
0.7	2	1	6/yr	6/yr
0.8	2	1	6/yr	6/yr
0.9	2	1	6/yr	6/yr
1	1	1	6/yr	NONE
2	6/yr	6/yr	NONE	NONE
3	6/yr	NONE	NONE	NONE
>3	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using RfD=3.6x10⁻⁴ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1 x 10⁻³ mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-45. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - Toxaphene**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.0002	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.0002	>30	>30	>30	>30	>30	>30	>30	>30	28	>30	>30	21
0.0004	>30	>30	>30	>30	>30	21	>30	>30	14	>30	>30	10
0.0006	>30	>30	28	>30	>30	14	>30	>30	9	>30	>30	7
0.0008	>30	>30	21	>30	>30	10	>30	>30	7	>30	>30	5
0.001	>30	>30	16	>30	>30	8	>30	>30	5	>30	>30	4
0.002	>30	>30	8	>30	>30	4	>30	28	2	>30	21	2
0.003	>30	>30	5	>30	28	2	>30	18	1	>30	14	1
0.004	>30	>30	4	>30	21	2	>30	14	1	>30	10	1
0.006	>30	28	2	>30	14	1	>30	9	6/yr	>30	7	6/yr
0.008	>30	21	2	>30	10	1	>30	7	6/yr	>30	5	6/yr
0.01	>30	16	1	>30	8	6/yr	>30	5	6/yr	>30	4	NONE
0.02	>30	8	6/yr	>30	4	NONE	28	2	NONE	21	2	NONE
0.04	>30	4	NONE	21	2	NONE	14	1	NONE	10	1	NONE
0.06	28	2	NONE	14	1	NONE	9	6/yr	NONE	7	6/yr	NONE
0.08	21	2	NONE	10	1	NONE	7	6/yr	NONE	5	6/yr	NONE
0.1	16	1	NONE	8	6/yr	NONE	5	6/yr	NONE	4	NONE	NONE
0.2	8	6/yr	NONE	4	NONE	NONE	2	NONE	NONE	2	NONE	NONE
0.4	4	NONE	NONE	2	NONE	NONE	1	NONE	NONE	1	NONE	NONE
0.6	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.8	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
1	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE
2	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>2	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,
EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Shaded values are below detection limit, 1×10^{-3} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3.
Consumption limits are calculated based on an adult body weight of 70 kg
and using a cancer potency factor of 1.1 per mg/kg/d.
References for cancer potency factors are found in Section 5.
All values were rounded down to the nearest whole meal size.

Table 4-46. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Chlorpyrifos

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.5	>30	>30	>30	>30
0.5	>30	>30	>30	28
0.6	>30	>30	>30	23
0.7	>30	>30	26	20
0.8	>30	>30	23	17
0.9	>30	>30	20	15
1	>30	28	18	14
2	28	14	9	7
3	18	9	6	4
4	14	7	4	3
5	11	5	3	2
6	9	4	3	2
7	8	4	2	2
8	7	3	2	1
9	6	3	2	1
10	5	2	1	1
20	2	1	6/yr	6/yr
30	1	6/yr	6/yr	NONE
40	1	6/yr	NONE	NONE
50	1	6/yr	NONE	NONE
60	6/yr	NONE	NONE	NONE
70	6/yr	NONE	NONE	NONE
80	6/yr	NONE	NONE	NONE
90	6/yr	NONE	NONE	NONE
100	6/yr	NONE	NONE	NONE
110	6/yr	NONE	NONE	NONE
>110	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=3 \times 10^{-3}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 2×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-47. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Chlorpyrifos

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.2	>30	>30	>30	>30
0.2	>30	>30	29	19
0.3	>30	>30	19	12
0.4	>30	29	14	9
0.5	>30	23	11	7
0.6	25	19	9	6
0.7	22	16	8	5
0.8	19	14	7	4
0.9	17	12	6	4
1	15	11	5	3
2	7	5	2	1
3	5	3	1	1
4	3	2	1	6/yr
5	3	2	1	6/yr
6	2	1	6/yr	6/yr
7	2	1	6/yr	6/yr
8	1	1	6/yr	NONE
9	1	1	6/yr	NONE
10	1	1	6/yr	NONE
20	6/yr	6/yr	NONE	NONE
30	6/yr	NONE	NONE	NONE
>30	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=3 \times 10^{-3}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 2×10^{-3} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-48. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Diazinon

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.02	>30	>30	>30	>30
0.02	>30	>30	28	21
0.03	>30	28	18	14
0.04	>30	21	14	10
0.05	>30	16	11	8
0.06	28	14	9	7
0.07	24	12	8	6
0.08	21	10	7	5
0.09	18	9	6	4
0.1	16	8	5	4
0.2	8	4	2	2
0.3	5	2	1	1
0.4	4	2	1	1
0.5	3	1	1	6/yr
0.6	2	1	6/yr	6/yr
0.7	2	1	6/yr	6/yr
0.8	2	1	6/yr	6/yr
0.9	1	6/yr	6/yr	NONE
1	1	6/yr	6/yr	NONE
2	6/yr	NONE	NONE	NONE
3	6/yr	NONE	NONE	NONE
>3	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=9 \times 10^{-5}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-49. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Diazinon

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.004	>30	>30	>30	>30
0.004	>30	>30	>30	29
0.005	>30	>30	>30	23
0.006	>30	>30	29	19
0.007	>30	>30	24	16
0.008	>30	>30	21	14
0.009	>30	>30	19	12
0.01	>30	>30	17	11
0.02	23	17	8	5
0.03	15	11	5	3
0.04	11	8	4	2
0.05	9	6	3	2
0.06	7	5	2	1
0.07	6	4	2	1
0.08	5	4	2	1
0.09	5	3	1	1
0.1	4	3	1	1
0.2	2	1	6/yr	6/yr
0.3	1	1	6/yr	NONE
0.4	1	6/yr	NONE	NONE
0.5	6/yr	6/yr	NONE	NONE
0.6	6/yr	6/yr	NONE	NONE
0.7	6/yr	NONE	NONE	NONE
0.8	6/yr	NONE	NONE	NONE
0.9	6/yr	NONE	NONE	NONE
>0.9	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=9 \times 10^{-5}$ mg/kg/d. References for RfDs are found in Section 5.

Shaded values are below the detection limit, 1×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-50. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Disulfoton

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.007	>30	>30	>30	>30
0.007	>30	>30	>30	26
0.008	>30	>30	>30	23
0.009	>30	>30	27	20
0.01	>30	>30	24	18
0.02	>30	18	12	9
0.03	24	12	8	6
0.04	18	9	6	4
0.05	14	7	4	3
0.06	12	6	4	3
0.07	10	5	3	2
0.08	9	4	3	2
0.09	8	4	2	2
0.1	7	3	2	1
0.2	3	1	1	6/yr
0.3	2	1	6/yr	6/yr
0.4	1	6/yr	6/yr	NONE
0.5	1	6/yr	NONE	NONE
0.6	1	6/yr	NONE	NONE
0.7	1	6/yr	NONE	NONE
0.8	6/yr	NONE	NONE	NONE
0.9	6/yr	NONE	NONE	NONE
1	6/yr	NONE	NONE	NONE
>1	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=4 \times 10^{-5}$ mg/kg/d. References for RfDs are found in Section 5.

Shaded values are below the detection limit, 1×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-51. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Disulfoton

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.002	>30	>30	>30	>30
0.002	>30	>30	>30	25
0.003	>30	>30	25	17
0.004	>30	>30	19	12
0.005	>30	30	15	10
0.006	>30	25	12	8
0.007	29	22	11	7
0.008	25	19	9	6
0.009	23	17	8	5
0.01	20	15	7	5
0.02	10	7	3	2
0.03	6	5	2	1
0.04	5	3	1	1
0.05	4	3	1	1
0.06	3	2	1	6/yr
0.07	2	2	1	6/yr
0.08	2	1	6/yr	6/yr
0.09	2	1	6/yr	6/yr
0.1	2	1	6/yr	6/yr
0.2	1	6/yr	NONE	NONE
0.3	6/yr	6/yr	NONE	NONE
0.4	6/yr	NONE	NONE	NONE
>0.4	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=4 \times 10^{-5}$ mg/kg/d.

References for RfDs are found in Section 5.

Shaded values are below the detection limit, 1×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-52. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Ethion

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.08	>30	>30	>30	>30
0.08	>30	>30	>30	29
0.09	>30	>30	>30	26
0.1	>30	>30	>30	23
0.2	>30	23	15	11
0.3	>30	15	10	7
0.4	23	11	7	5
0.5	18	9	6	4
0.6	15	7	5	3
0.7	13	6	4	3
0.8	11	5	3	2
0.9	10	5	3	2
1	9	4	3	2
2	4	2	1	1
3	3	1	1	6/yr
4	2	1	6/yr	6/yr
5	1	6/yr	6/yr	NONE
6	1	6/yr	6/yr	NONE
7	1	6/yr	NONE	NONE
8	1	6/yr	NONE	NONE
9	1	6/yr	NONE	NONE
10	6/yr	NONE	NONE	NONE
15	6/yr	NONE	NONE	NONE
>15	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=5 \times 10^{-4}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 2×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-53. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Ethion

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.03	>30	>30	>30	>30
0.03	>30	>30	>30	21
0.04	>30	>30	24	16
0.05	>30	>30	19	12
0.06	>30	>30	16	10
0.07	>30	27	13	9
0.08	>30	24	12	8
0.09	28	21	10	7
0.1	25	19	9	6
0.2	12	9	4	3
0.3	8	6	3	2
0.4	6	4	2	1
0.5	5	3	1	1
0.6	4	3	1	1
0.7	3	2	1	6/yr
0.8	3	2	1	6/yr
0.9	2	2	1	6/yr
1	2	1	6/yr	6/yr
2	1	6/yr	NONE	NONE
3	6/yr	6/yr	NONE	NONE
4	6/yr	NONE	NONE	NONE
5	6/yr	NONE	NONE	NONE
>5	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=5 \times 10^{-4}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 2×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-54. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Terbufos

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.02	>30	>30	>30	>30
0.02	>30	>30	>30	30
0.03	>30	>30	27	20
0.04	>30	30	20	15
0.05	>30	24	16	12
0.06	>30	20	13	10
0.07	>30	17	11	8
0.08	30	15	10	7
0.09	26	13	9	6
0.1	24	12	8	6
0.2	12	6	4	3
0.3	8	4	2	2
0.4	6	3	2	1
0.5	4	2	1	1
0.6	4	2	1	1
0.7	3	1	1	6/yr
0.8	3	1	1	6/yr
0.9	2	1	6/yr	6/yr
1	2	1	6/yr	6/yr
2	1	6/yr	NONE	NONE
3	6/yr	NONE	NONE	NONE
4	6/yr	NONE	NONE	NONE
>4	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=1.3 \times 10^{-4}$ mg/kg/d. References for RfDs are found in Section 5.

Shaded values are below the detection limit, 5×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-55. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Terbufos

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.006	>30	>30	>30	>30
0.006	>30	>30	>30	28
0.007	>30	>30	>30	24
0.008	>30	>30	>30	21
0.009	>30	>30	28	18
0.01	>30	>30	25	16
0.02	>30	25	12	8
0.03	22	16	8	5
0.04	16	12	6	4
0.05	13	10	5	3
0.06	11	8	4	2
0.07	9	7	3	2
0.08	8	6	3	2
0.09	7	5	2	1
0.1	6	5	2	1
0.2	3	2	1	6/yr
0.3	2	1	6/yr	6/yr
0.4	1	1	6/yr	NONE
0.5	1	1	6/yr	NONE
0.6	1	6/yr	NONE	NONE
0.7	6/yr	6/yr	NONE	NONE
0.8	6/yr	6/yr	NONE	NONE
0.9	6/yr	6/yr	NONE	NONE
1	6/yr	6/yr	NONE	NONE
>1	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=1.3 \times 10^{-4}$ mg/kg/d.

References for RfDs are found in Section 5.

Shaded values are below the detection limit, 5×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-56. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - Oxyfluorfen

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.5	>30	>30	>30	>30
0.5	>30	>30	>30	28
0.6	>30	>30	>30	23
0.7	>30	>30	26	20
0.8	>30	>30	23	17
0.9	>30	>30	20	15
1	>30	28	18	14
2	28	14	9	7
3	18	9	6	4
4	14	7	4	3
5	11	5	3	2
6	9	4	3	2
7	8	4	2	2
8	7	3	2	1
9	6	3	2	1
10	5	2	1	1
20	2	1	6/yr	6/yr
30	1	6/yr	6/yr	NONE
40	1	6/yr	NONE	NONE
50	1	6/yr	NONE	NONE
60	6/yr	NONE	NONE	NONE
70	6/yr	NONE	NONE	NONE
80	6/yr	NONE	NONE	NONE
90	6/yr	NONE	NONE	NONE
100	6/yr	NONE	NONE	NONE
110	6/yr	NONE	NONE	NONE
>110	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=3 \times 10^{-3}$ mg/kg/d. References for RfDs are found in Section 5.

The detection limit is 1×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-57. Monthly Consumption Limits for Chronic Systemic Health Endpoints for Children - Oxyfluorfen

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.2	>30	>30	>30	>30
0.2	>30	>30	29	19
0.3	>30	>30	19	12
0.4	>30	29	14	9
0.5	>30	23	11	7
0.6	25	19	9	6
0.7	22	16	8	5
0.8	19	14	7	4
0.9	17	12	6	4
1	15	11	5	3
2	7	5	2	1
3	5	3	1	1
4	3	2	1	6/yr
5	3	2	1	6/yr
6	2	1	6/yr	6/yr
7	2	1	6/yr	6/yr
8	1	1	6/yr	NONE
9	1	1	6/yr	NONE
10	1	1	6/yr	NONE
20	6/yr	6/yr	NONE	NONE
30	6/yr	NONE	NONE	NONE
>30	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=3 \times 10^{-3}$ mg/kg/d.

References for RfDs are found in Section 5.

The detection limit is 1×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-58. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - Oxyfluorfen**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.002	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.002	>30	>30	>30	>30	>30	>30	>30	>30	24	>30	>30	18
0.004	>30	>30	>30	>30	>30	18	>30	>30	12	>30	>30	9
0.006	>30	>30	23	>30	>30	12	>30	>30	8	>30	>30	6
0.008	>30	>30	17	>30	>30	9	>30	>30	6	>30	>30	4
0.01	>30	>30	14	>30	>30	7	>30	>30	4	>30	>30	3
0.02	>30	>30	7	>30	>30	3	>30	24	2	>30	18	1
0.04	>30	>30	3	>30	18	1	>30	12	1	>30	9	6/yr
0.06	>30	23	2	>30	12	1	>30	8	6/yr	>30	6	6/yr
0.08	>30	17	1	>30	9	6/yr	>30	6	6/yr	>30	4	NONE
0.1	>30	14	1	>30	7	6/yr	>30	4	NONE	>30	3	NONE
0.2	>30	7	6/yr	>30	3	NONE	24	2	NONE	18	1	NONE
0.4	>30	3	NONE	18	1	NONE	12	1	NONE	9	6/yr	NONE
0.6	23	2	NONE	12	1	NONE	8	6/yr	NONE	6	6/yr	NONE
0.8	17	1	NONE	9	6/yr	NONE	6	6/yr	NONE	4	NONE	NONE
1	14	1	NONE	7	6/yr	NONE	4	NONE	NONE	3	NONE	NONE
2	7	6/yr	NONE	3	NONE	NONE	2	NONE	NONE	1	NONE	NONE
4	3	NONE	NONE	1	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE
6	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
8	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE
10	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
15	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
20	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
25	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>25	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,

EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Shaded values are below detection limit, 1×10^{-2} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3. Consumption limits are calculated based on an adult body weight of 70 kg and using a cancer potency factor of 0.13 per mg/kg/d. References for cancer potency factors are found in Section 5. All values were rounded down to the nearest whole meal size.

**Table 4-59. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - PAHs**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.00004	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.00004	>30	>30	>30	>30	>30	>30	>30	>30	21	>30	>30	16
0.00006	>30	>30	>30	>30	>30	21	>30	>30	14	>30	>30	10
0.00008	>30	>30	>30	>30	>30	16	>30	>30	10	>30	>30	8
0.0001	>30	>30	25	>30	>30	12	>30	>30	8	>30	>30	6
0.0002	>30	>30	12	>30	>30	6	>30	>30	4	>30	>30	3
0.0004	>30	>30	6	>30	>30	3	>30	21	2	>30	16	1
0.0006	>30	>30	4	>30	21	2	>30	14	1	>30	10	1
0.0008	>30	>30	3	>30	16	1	>30	10	1	>30	8	6/yr
0.001	>30	25	2	>30	12	1	>30	8	6/yr	>30	6	6/yr
0.002	>30	12	1	>30	6	6/yr	>30	4	NONE	>30	3	NONE
0.003	>30	8	6/yr	>30	4	NONE	28	2	NONE	21	2	NONE
0.004	>30	6	6/yr	>30	3	NONE	21	2	NONE	16	1	NONE
0.006	>30	4	NONE	21	2	NONE	14	1	NONE	10	1	NONE
0.008	>30	3	NONE	16	1	NONE	10	1	NONE	8	6/yr	NONE
0.01	25	2	NONE	12	1	NONE	8	6/yr	NONE	6	6/yr	NONE
0.02	12	1	NONE	6	6/yr	NONE	4	NONE	NONE	3	NONE	NONE
0.04	6	6/yr	NONE	3	NONE	NONE	2	NONE	NONE	1	NONE	NONE
0.06	4	NONE	NONE	2	NONE	NONE	1	NONE	NONE	1	NONE	NONE
0.08	3	NONE	NONE	1	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE
0.1	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.2	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
0.4	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>0.4	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,
EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a The detection limit is 1×10^{-6} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3.
Consumption limits are calculated based on an adult body weight of 70 kg
and using a cancer potency factor of 7.3 per mg/kg/d.
References for cancer potency factors are found in Section 5.
All values were rounded down to the nearest whole meal size.

Table 4-60. Monthly Consumption Limits for Chronic Systemic Health Endpoints for the General Population - PCBs (Aroclor 1254)

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.004	>30	>30	>30	>30
0.004	>30	>30	>30	23
0.005	>30	>30	24	18
0.006	>30	>30	20	15
0.007	>30	26	17	13
0.008	>30	23	15	11
0.009	>30	20	13	10
0.01	>30	18	12	9
0.02	18	9	6	4
0.03	12	6	4	3
0.04	9	4	3	2
0.05	7	3	2	1
0.06	6	3	2	1
0.07	5	2	1	1
0.08	4	2	1	1
0.09	4	2	1	1
0.1	3	1	1	6/yr
0.2	1	6/yr	6/yr	NONE
0.3	1	6/yr	NONE	NONE
0.4	6/yr	NONE	NONE	NONE
0.5	6/yr	NONE	NONE	NONE
0.6	6/yr	NONE	NONE	NONE
0.7	6/yr	NONE	NONE	NONE
>0.7	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=2 \times 10^{-5}$ mg/kg/d. References for RfDs are found in Section 5.

Shaded values are below the detection limit, 5×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-61. Monthly Consumption Limits for Developmental Health Endpoints for Women of Reproductive Age - PCBs (Aroclor 1254)

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)	16-oz Meal Size (0.454 kg)
<0.004	>30	>30	>30	>30
0.004	>30	>30	>30	23
0.005	>30	>30	24	18
0.006	>30	>30	20	15
0.007	>30	26	17	13
0.008	>30	23	15	11
0.009	>30	20	13	10
0.01	>30	18	12	9
0.02	18	9	6	4
0.03	12	6	4	3
0.04	9	4	3	2
0.05	7	3	2	1
0.06	6	3	2	1
0.07	5	2	1	1
0.08	4	2	1	1
0.09	4	2	1	1
0.1	3	1	1	6/yr
0.2	1	6/yr	6/yr	NONE
0.3	1	6/yr	NONE	NONE
0.4	6/yr	NONE	NONE	NONE
0.5	6/yr	NONE	NONE	NONE
0.6	6/yr	NONE	NONE	NONE
0.7	6/yr	NONE	NONE	NONE
>0.7	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg and using $RfD=2 \times 10^{-5}$ mg/kg/d. References for RfDs are found in Section 5.

Shaded values are below the detection limit, 5×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

Table 4-62. Monthly Consumption Limits for Developmental health Endpoints for Children - PCBs (Aroclor 1254)

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b			
	3-oz Meal Size (0.085 kg)	4-oz Meal Size (0.114 kg)	8-oz Meal Size (0.227 kg)	12-oz Meal Size (0.341 kg)
<0.0009	>30	>30	>30	>30
0.0009	>30	>30	>30	28
0.001	>30	>30	>30	25
0.002	>30	>30	19	12
0.003	>30	25	12	8
0.004	25	19	9	6
0.005	20	15	7	5
0.006	17	12	6	4
0.007	14	11	5	3
0.008	12	9	4	3
0.009	11	8	4	2
0.01	10	7	3	2
0.02	5	3	1	1
0.03	3	2	1	6/yr
0.04	2	1	6/yr	6/yr
0.05	2	1	6/yr	6/yr
0.06	1	1	6/yr	NONE
0.07	1	1	6/yr	NONE
0.08	1	6/yr	NONE	NONE
0.09	1	6/yr	NONE	NONE
0.1	1	6/yr	NONE	NONE
0.2	6/yr	NONE	NONE	NONE
>0.2	NONE	NONE	NONE	NONE

NONE = No consumption recommended.

6/yr = Consumption of no more than 6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed, EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on a body weight of 14.5 kg and using $RfD=2 \times 10^{-5}$ mg/kg/d. References for RfDs are found in Section 5.

Shaded values are below the detection limit, 5×10^{-2} mg/kg.

All values were rounded down to the nearest whole meal size.

^b Monthly limits are based on the total dose allowable over a 1-month period (based on the RfD).

When this dose is consumed in less than 1 month (e.g., in a few large meals), the daily dose will exceed the RfD (see Section 2.3).

**Table 4-63. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - PCBs (Total)**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.00008	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.00008	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	29
0.0001	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	23
0.0002	>30	>30	>30	>30	>30	23	>30	>30	15	>30	>30	11
0.0004	>30	>30	23	>30	>30	11	>30	>30	7	>30	>30	5
0.0006	>30	>30	15	>30	>30	7	>30	>30	5	>30	>30	3
0.0008	>30	>30	11	>30	>30	5	>30	>30	3	>30	29	2
0.001	>30	>30	9	>30	>30	4	>30	>30	3	>30	23	2
0.002	>30	>30	4	>30	23	2	>30	15	1	>30	11	1
0.004	>30	23	2	>30	11	1	>30	7	6/yr	>30	5	6/yr
0.006	>30	15	1	>30	7	6/yr	>30	5	6/yr	>30	3	NONE
0.008	>30	11	1	>30	5	6/yr	>30	3	NONE	29	2	NONE
0.01	>30	9	6/yr	>30	4	NONE	>30	3	NONE	23	2	NONE
0.02	>30	4	NONE	23	2	NONE	15	1	NONE	11	1	NONE
0.04	23	2	NONE	11	1	NONE	7	6/yr	NONE	5	6/yr	NONE
0.06	15	1	NONE	7	6/yr	NONE	5	6/yr	NONE	3	NONE	NONE
0.08	11	1	NONE	5	6/yr	NONE	3	NONE	NONE	2	NONE	NONE
0.1	9	6/yr	NONE	4	NONE	NONE	3	NONE	NONE	2	NONE	NONE
0.2	4	NONE	NONE	2	NONE	NONE	1	NONE	NONE	1	NONE	NONE
0.4	2	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.6	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE
0.8	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
1	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>1	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,

EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Shaded values are below detection limit, 5×10^{-2} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3. Consumption limits are calculated based on an adult body weight of 70 kg and using a cancer potency factor of 2.0 per mg/kg/d. References for cancer potency factors are found in Section 5. All values were rounded down to the nearest whole meal size.

**Table 4-64. Monthly Consumption Limits for Carcinogenic Health Endpoints
for the General Population - Dioxins/Furans**

Chemical Concentration in Fish Tissue ^a (mg/kg or ppm)	Recommended Risk - Based Consumption Limit (meals per month) ^b											
	4-oz Meal Size (0.114 kg)			8-oz Meal Size (0.227 kg)			12-oz Meal Size (0.341 kg)			16-oz Meal Size (0.454 kg)		
	ARL			ARL			ARL			ARL		
	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
<0.00000001	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30
0.00000001	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	>30	30
0.00000002	>30	>30	>30	>30	>30	30	>30	>30	20	>30	>30	15
0.00000004	>30	>30	29	>30	>30	15	>30	>30	10	>30	>30	7
0.00000006	>30	>30	19	>30	>30	10	>30	>30	6	>30	>30	5
0.00000008	>30	>30	14	>30	>30	7	>30	>30	5	>30	>30	3
0.0000001	>30	>30	11	>30	>30	6	>30	>30	4	>30	30	3
0.0000002	>30	>30	5	>30	30	3	>30	20	2	>30	15	1
0.0000004	>30	29	2	>30	15	1	>30	10	1	>30	7	6/yr
0.0000006	>30	19	1	>30	10	1	>30	6	6/yr	>30	5	6/yr
0.0000007	>30	17	1	>30	8	6/yr	>30	5	6/yr	>30	4	NONE
0.0000008	>30	14	1	>30	7	6/yr	>30	5	6/yr	>30	3	NONE
0.000001	>30	11	1	>30	6	6/yr	>30	4	NONE	30	3	NONE
0.000002	>30	5	6/yr	30	3	NONE	20	2	NONE	15	1	NONE
0.000004	29	2	NONE	15	1	NONE	10	1	NONE	7	6/yr	NONE
0.000006	19	1	NONE	10	1	NONE	6	6/yr	NONE	5	6/yr	NONE
0.000008	14	1	NONE	7	6/yr	NONE	5	6/yr	NONE	3	NONE	NONE
0.00001	11	1	NONE	6	6/yr	NONE	4	NONE	NONE	3	NONE	NONE
0.00002	5	6/yr	NONE	3	NONE	NONE	2	NONE	NONE	1	NONE	NONE
0.00004	2	NONE	NONE	1	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE
0.00006	1	NONE	NONE	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE
0.00008	1	NONE	NONE	6/yr	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE
0.0001	1	NONE	NONE	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
0.0002	6/yr	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
>0.0002	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

ARL = Acceptable Risk Level.

NONE = No consumption recommended.

6/yr = Consumption of no more than

6 meals per year is recommended.

> 30 = Although consumption of more than 30 meals/month is allowed,

EPA advises limiting consumption to 30 meals in 1 month (1 meal per day).

^a Shaded values are below detection limit, 5×10^{-7} mg/kg.

^b Instructions for modifying the variables in this table are found in Section 3.3.

Consumption limits are calculated based on an adult body weight of 70 kg

and using a cancer potency factor of 1.56×10^5 per mg/kg/d.

References for cancer potency factors are found in Section 5.

All values were rounded down to the nearest whole meal size.

4. RISK-BASED CONSUMPTION LIMIT TABLES
